



Sm-6



marantz.[®]

Model Sm-6

Stereo Power Amplifier

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

CANADA

Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA

Superscope (Australasia) Pty., Ltd.
32 Cross Street (P.O. Box 604)
Brookvale 2100 N.S.W.
Australia

JAPAN

Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara Shi
Kanagawa, Japan

EUROPE

Marantz Europe, S.A.
Avenue Leopold III, 2
7120 Peronnes-Lez-Binche
Belgium

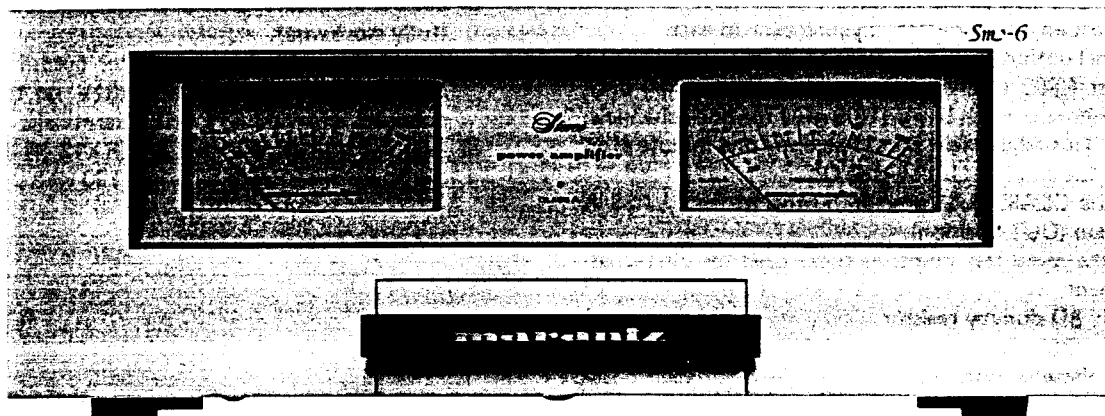
Marantz France
Rue Louis Armand 9
92600 Asnieres
Hauts-de-Seine
France

Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

Marantz GmbH
Max-Planck-Strasse 22
D-6072 Dreieich 1
West Germany

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

MARANTZ MODEL Sm-6 STEREO POWER AMPLIFIER



FEATURES

- **High power — 120W x 2 of dynamic "Marantz" sound (Class B operation)**
From the line input, the audio signal passes to the dual FETs in the buffer amp and then to the first stage which is a differential amplifier using dual transistors. One side of this differential output is phase inverted, while the output of the buffer amp passes to a pure push-pull amplifier which drives the final output stage. The power amplifier stage uses newly developed super high f_T power transistors in parallel three-stage Darlington connection. This makes possible handling high currents with sufficient heat radiating capacity.
- **Large size logarithmic compression type peak power meters**
Model Sm-6 is equipped with large size power meters for checking output levels and balance.
The scale is subject to logarithmic compression, so that a wide range of power can be read without switching the range.
- **With pure Class A operation, reproduction of music is fantastic**
When switched to pure Class A operation, output power is 30W of sound without a trace of switching distortion. This power amplifier is ideal for handling the high frequencies in a multichannel system.
- **Protective circuit which does not degrade tone quality**
The overload protective circuit detects both overvoltage and overcurrent conditions, while in the area of safe operation (A.S.O.) does not degrade the operation of the drive transistors. The protective circuit has adaptable characteristics so that its operation does not interfere with the program and its operation is always constant.
- **DC amplification provides high fidelity waveform transmission and low TIM**
DC amplification makes possible circuitry which transmits the waveform of the input signal with total accuracy; especially, at low frequencies there is absolutely no phase distortion. When used with high quality speaker systems, they are protected against pop noise from the pre-amp due to damage, etc. by separate DIRECT and SUBSONIC input terminals.
- **PLUS**
The power output circuit is equipped with high efficiency heat sinks to cool the power transistors, thus providing continuous high output power.

ADJUSTMENT

● Idling current adjustment

1. a) Set the CLASS A/B selector button on the front subpanel to the CLASS B position (OUT position).
- b) Connect a digital voltmeter across TP1 and TP3 (for L channel: across R641) and across TP4 and TP6 (for R channel: across R642).
- c) Connect an 8-ohm dummy load resistor to each channel output.
- d) Adjust RS03 (L channel) and RS04 (R channel) until the voltmeter reads 5 mV (18.5 mA) for both channels.

NOTE: This adjustment should be done one minute after the amplifier is powered ON.

2. a) Set the CLASS A/B selector button to the CLASS A position (OUT position).
- b) Use the same test points as those used for class-B adjustment.
- c) Load: 8Ω dummy resistor.
- d) Adjust RS01 (L channel) and RS02 (R channel) until the voltmeter reads 190 mV (704 mA) for each channel.

NOTE: This adjustment should be done one minute after the amplifier is powered ON.

3. Meter adjustment

- a) Connect a VTVM and an 8-ohm dummy load to the SPEAKER terminals.
- b) Connect an audio signal generator output of 1 kHz, 1.5V to the Main IN jack.
- c) Set the input level control on the unit to the maximum (fully clockwise).

Adjust the audio signal generator output level until an output power of 120 watts (31V on the VTVM) is obtained across the SPEAKER terminals.

- d) Adjust RX11 (L channel) and RX12 (R channel) until the power meter reading is just 120 watts.

REQUIRED MEASURING INSTRUMENTS

Table 1. List of required measuring instruments

Item	Purpose
Distortion meter	Measures distortion in amplifier output and its voltage.
Audio frequency generator	Signal source for audio-frequency sine and square waves.
Oscilloscope	Waveform analysis and troubleshooting.
V T V M	Voltage and resistance measurement.
AC power meter	Monitors amplifier's primary power consumption.
Voltmeter	Monitors amplifier's primary supply voltage.
Slidac (0 ~ 140V AC, 10A)	Adjusts amplifier's primary supply voltage.
Shorting plug	Used to short input jacks for noise prevention.
Output load resistor (8Ω ± 0.5%, 250W)	Load to amplifier output (8Ω).
Output load resistor (4Ω ± 0.5%, 250W)	Load to amplifier output (4Ω).

Model Sm-6 (F)

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
					E	P		
001D	1	2461257010	Lid, Top Cover	001D	1		201H257010	Lid, Top Cover
004D	4	5126030820	B.H. Tapped Screw B3 x 8	004D	4		51280308U0	B.H. Tapped Screw B3 x 8
005D	1	2144861010	Label	005D	1	1	201H861010	Label
006D	4	5148040629	F. Washer Screw 4 x 6	006D	4		51100425S9	B.H.M. Screw B4 x 25
				016D	1		201H064010	Case Side Wood L
				017D	1		201H064020	Case Side Wood R
				018D	4		3906259010	Bushing
				019D	2		2140115010	Spring
				020D	4		51543110S0	F.H. Wood Screw
				021D	1		2932861010	Label
				022D	1		2578861010	Label
001E	1	201H160210	Bracket, Rear Panel	001E	1		201H160230	Bracket, Rear Panel
005E	1	1455259090	Bushing	001E	1		201H160220	Bracket, Rear Panel
				005E	1		1455259040	Bushing
				012E	1	1	201H053030	Cover
				013E	2	2	51280308U0	B.H. Tapped Screw B3 x 8
				014E	2	2	51280308U0	B.H. Tapped Screw B3 x 8
007L	8	2144259020	Bushing	006L	2	2	201H120010	Insulator
				001R	1		2932861010	Label
				901F	1		62030039W0	Lug
				902F	1		51280308B0	B.H. Tapped Screw B3 x 8
004S	1	2144809020	Cushion	002S	1		201H801030	Packing Case
007S	1	201H851110	Instructions	004S	1		201H809010	Cushion
				007S	1	1	201H851310	Instructions
				008S	2		2139809040	Cushion
010S	1	9631000110	Guarantee Card	012S	2		9526019060	Serial No. Card
012S	2	9526019040	Serial No. Card	012S	3		9526019050	Serial No. Card
013S	1	2976813020	Envelope	013S	1		2713813010	Envelope
014S	1	2976851040	Instructions	014S	1		2818854010	Guarantee Card
				015S	1		9650000010	S. Station Card
				017S	1		9630000180	Guarantee Card
018S	1	9650000030	S. Station Card	018S	1		201H851020	Instructions
				019S	1		2918107310	Sheet
				020S	1		YJ04000240	Jack
				030S	1		2731821010	Silicagel
				031S	1		201H856010	Circuit Diagram
				032S	1		201H851020	Instructions
F001	1	FS10800010	Fuse 8A 250V	F001	1		FS10400020	Fuse 4A 250V
				F001	1		FS10800010	Fuse 8A 250V
GU01	1	BF-10400030	Cap. Comp. 0.1μF +120Ω	GU01	1		BF10400060	Cap. Comp. 0.1μF + 120Ω
				GU01	1		BF33300010	Cap. Comp. 0.033μF +120Ω
L001	1	TS60508020	Power Transformer	J091	1	1	BY05080010	4-Voltage Selector
W001	1	YC02400180	A.C. Power Cord	L001	1	1	TS60508030	Power Transformer
				W001	1		YC01900030	A.C. Power Cord
C781	1	DF16102510	Film 0.001μF ±10%	C779	1	1	DF16102510	Film 1000pF 200V
C618	1	DF16105530	Film 1μF ±10% 200V	Q613	1	1	HT328372A0	Transistor 2SC2837 (R or O)
C619	1	DF16105530	Film 1μF ±10% 200V	Q614	1	1	HT111862A0	Transistor 2SA1186 (R or O)
Q613	1	HT327062A0	Transistor 2SC2706 (R or O)	Q615	1	1	HT328372A0	Transistor 2SC2837 (R or O)
Q614	1	HT111462A0	Transistor 2SA1146 (R or O)	Q616	1	1	HT111862A0	Transistor 2SA1186 (R or O)
Q615	1	HT327062A0	Transistor 2SC2706 (R or O)	Q617	1	1	HT328372A0	Transistor 2SC2837 (R or O)
Q616	1	HT111462A0	Transistor 2SA1146 (R or O)	Q618	1	1	HT111862A0	Transistor 2SA1186 (R or O)
Q617	1	HT327062A0	Transistor 2SC2706 (R or O)	Q619	1	1	HT328372A0	Transistor 2SC2837 (R or O)
Q618	1	HT111462A0	Transistor 2SA1146 (R or O)	Q620	1	1	HT111862A0	Transistor 2SA1186 (R or O)
Q619	1	HT327062A0	Transistor 2SC2706 (R or O)					
Q620	1	HT111462A0	Transistor 2SA1146 (R or O)					

Model Sm-6 (E, P)

Model Sm-6 (F)

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
					E	P		
QX09	1	HD10001010	Diode 1N34A	QX09	1	1	HD10004020	Diode 1N34A
QX10	1	HD10001010	Diode 1N34A	QX10	1	1	HD10004020	Diode 1N34A
				W002	1	1	YU08200010	Jumper Lead 8P
				W003	1	1	YU06200010	Jumper Lead 6P
				P600	1		WK21441210	P.W. Board, Power Amp
					1		ZZ21448210	P.W. Board Assembly
				P700	1		WK21441220	P.W. Board, Voltage Amp
					1		ZZ21448220	P.W. Board Assembly
				PN00	1		YH22870210	P.W. Board, Aso Protector
					1		ZZ22870210	P.W. Board Assembly
				PP00	1		WF21440010	P.W. Board, Fuse
					1		ZZ21440010	P.W. Board Assembly
				PS00	1		WK201H1620	P.W. Board, SP SW
					1		ZZ201H1620	P.W. Board Assembly
				PU00	1		WK201H1640	P.W. Board, Power SW
					1		ZZ201H1640	P.W. Board Assembly
				PV00	1		WK201H1630	P.W. Board, Input
					1		ZZ201H1630	P.W. Board Assembly
				PW00	1		WK201H1660	P.W. Board, SP Terminal
					1		ZZ201H1660	P.W. Board Assembly
				PX00	1		WK201H1610	P.W. Board, Meter
					1		ZZ201H1610	P.W. Board Assembly
				PZ00	1		WK201H1650	P.W. Board, Ind.
					1		ZZ201H1650	P.W. Board Assembly

Model Sm-6 (E, P)

TECHNICAL SPECIFICATIONS

AUDIO SECTION

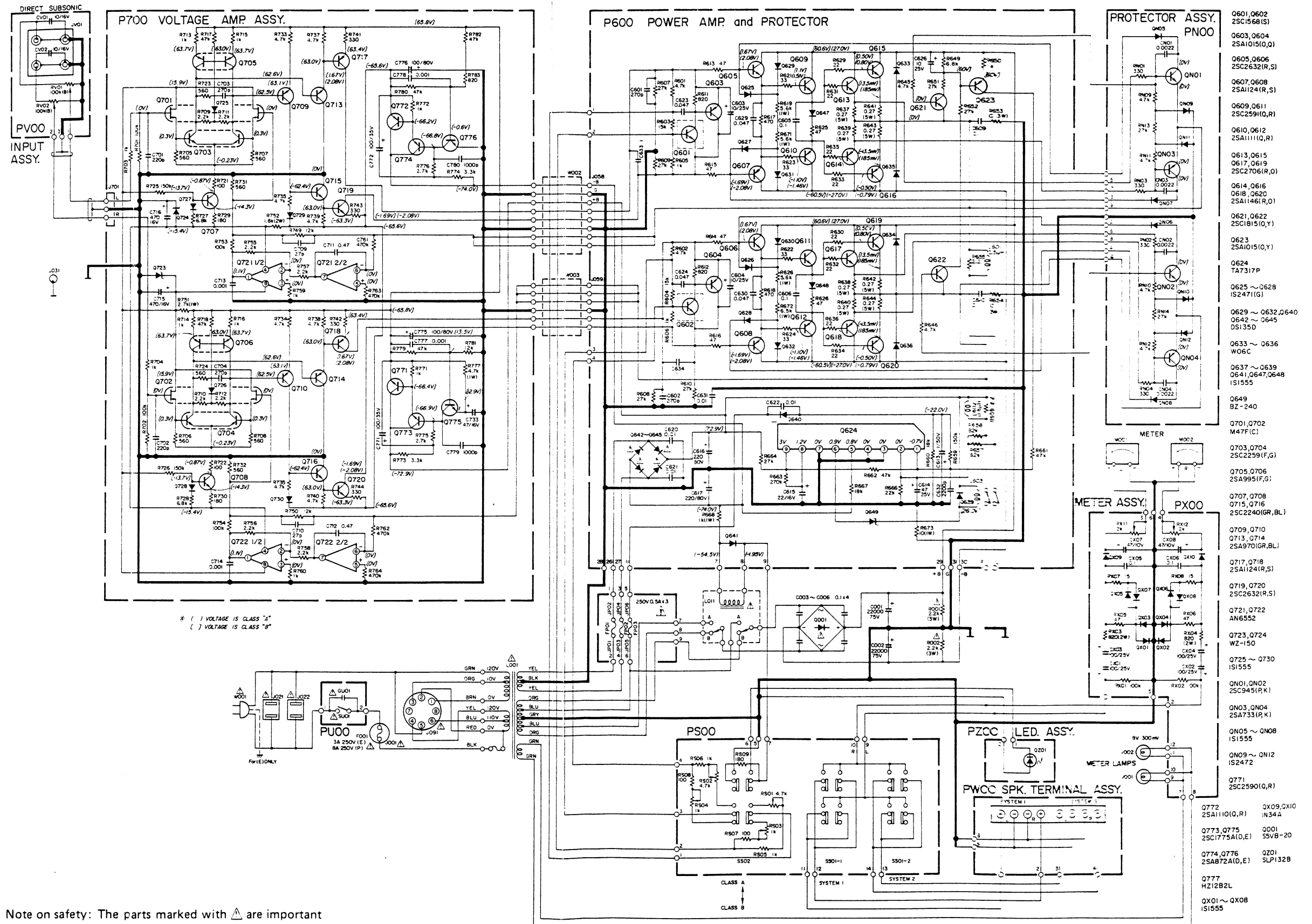
Power Output (Both Channels Driven at 20 Hz to 20 kHz)	120 W x 2 (8Ω)
	140 W x 2 (4Ω)
Power Bandwidth (8Ω Load, THD 0.05%)	5 Hz ~ 100 kHz
Total Harmonic Distortion (20 Hz ~ 20 kHz, 8Ω Load)	0.01 %
I.M. Distortion	0.01 %
Frequency Response	
20 Hz ~ 20 kHz	+0, -0.2 dB
DC ~ 100 kHz	+0, -1 dB
Input Sensitivity & Impedance	1.5V/47 kΩ
Damping Factor (8Ω Load)	100
Signal-to-Noise Ratio (IHF-A Network)	118 dB

GENERAL

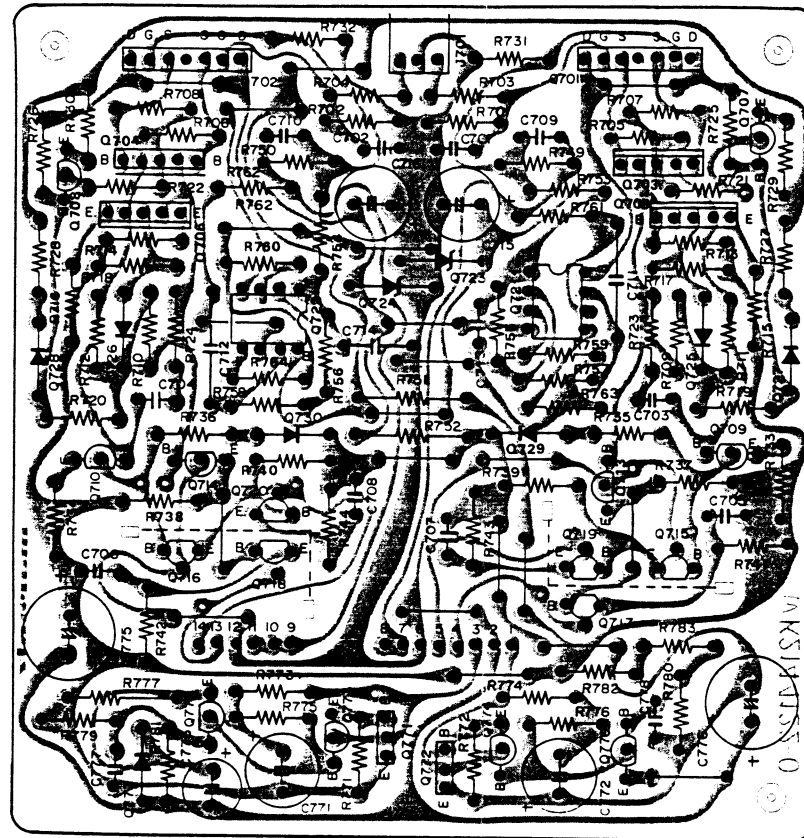
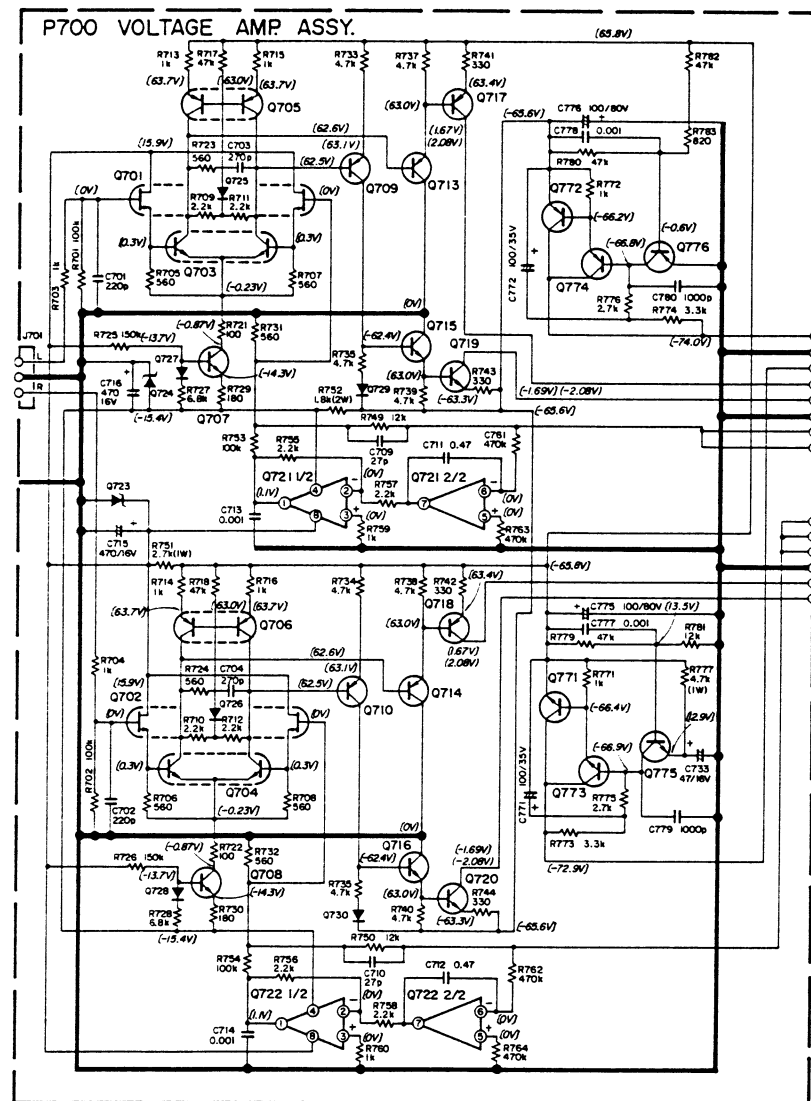
Power Requirements	110/120/220/240V AC, 50/60 Hz
Power Consumption	320W
Dimensions (W x H x D)	416 mm x 146 mm x 337 mm
Weight (Unit alone)	325 lbs (14.5 kg)

SCHEMATIC DIAGRAM

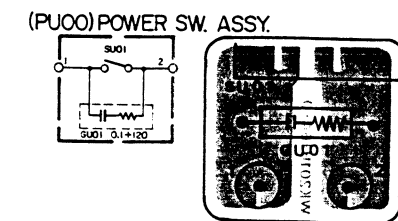
Model Sm-6



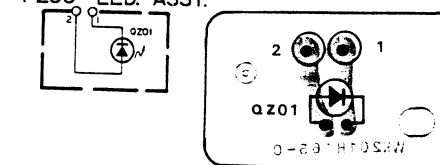
Voltage Amp. Assembly (P700) Schematic Diagram and Component Locations



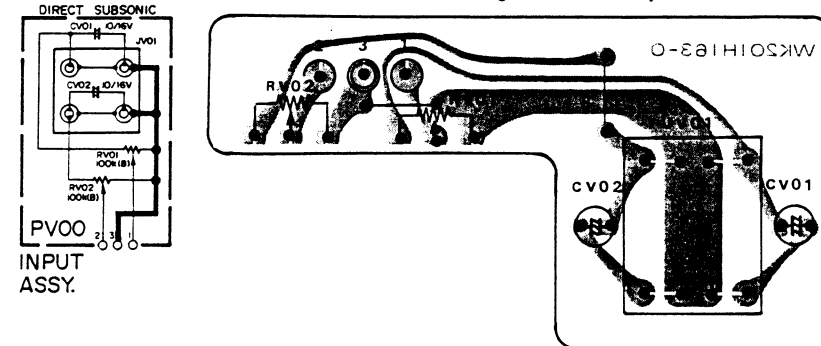
Power Switch Assembly (PU00)
Schematic Diagram and Component Locations



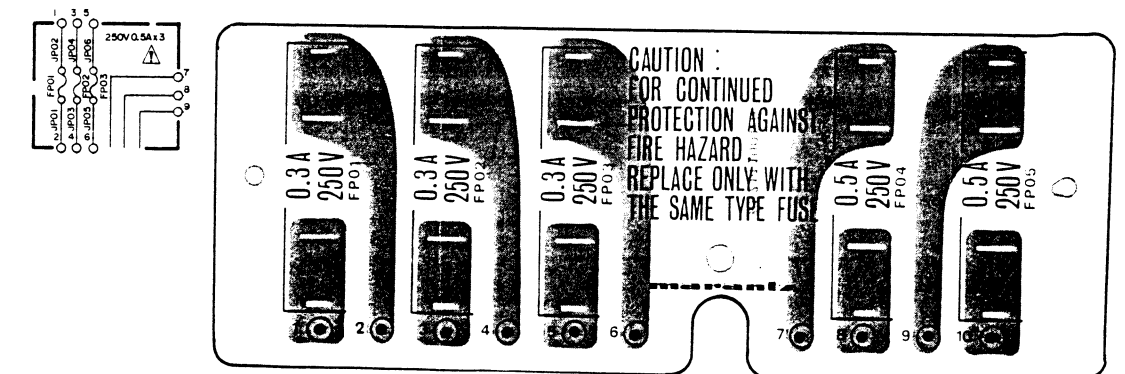
Class A Indicator Assembly (PZ00)
Schematic Diagram and Component Locations



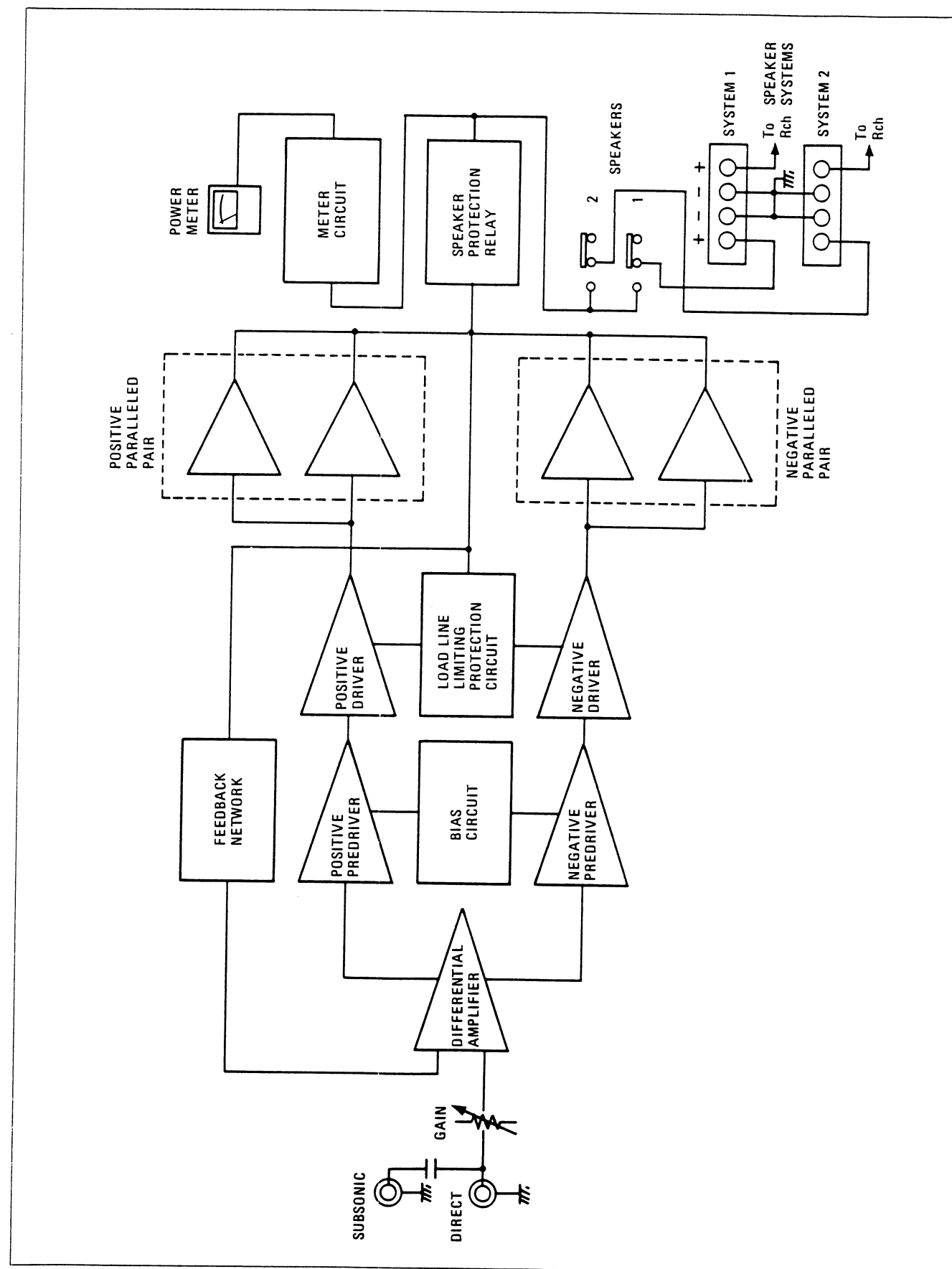
Input Circuit Assembly (PV00) Schematic Diagram and Component Locations



Fuse Assembly (PP00) Schematic Diagram and Component Locations

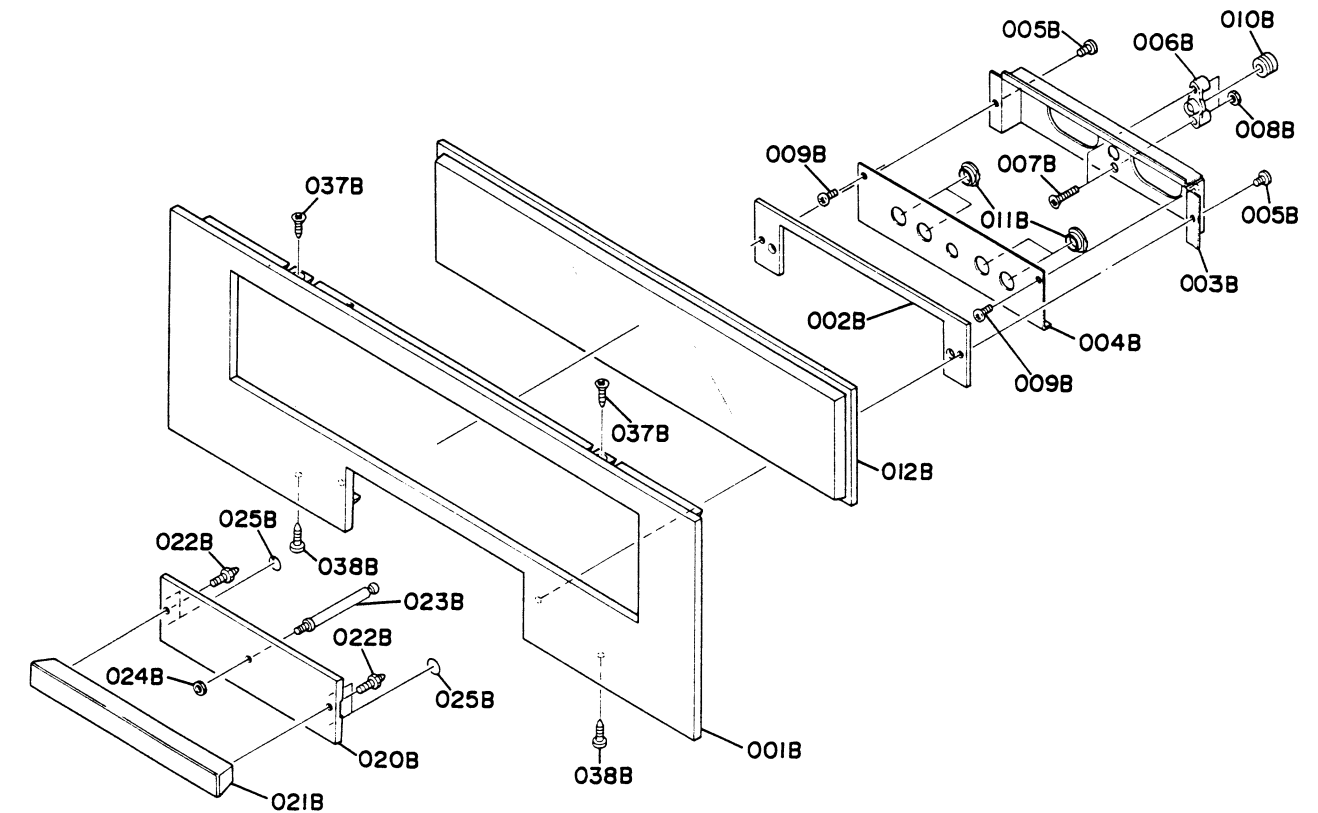


□ ブロックダイアグラム



□ 分解及び部品表

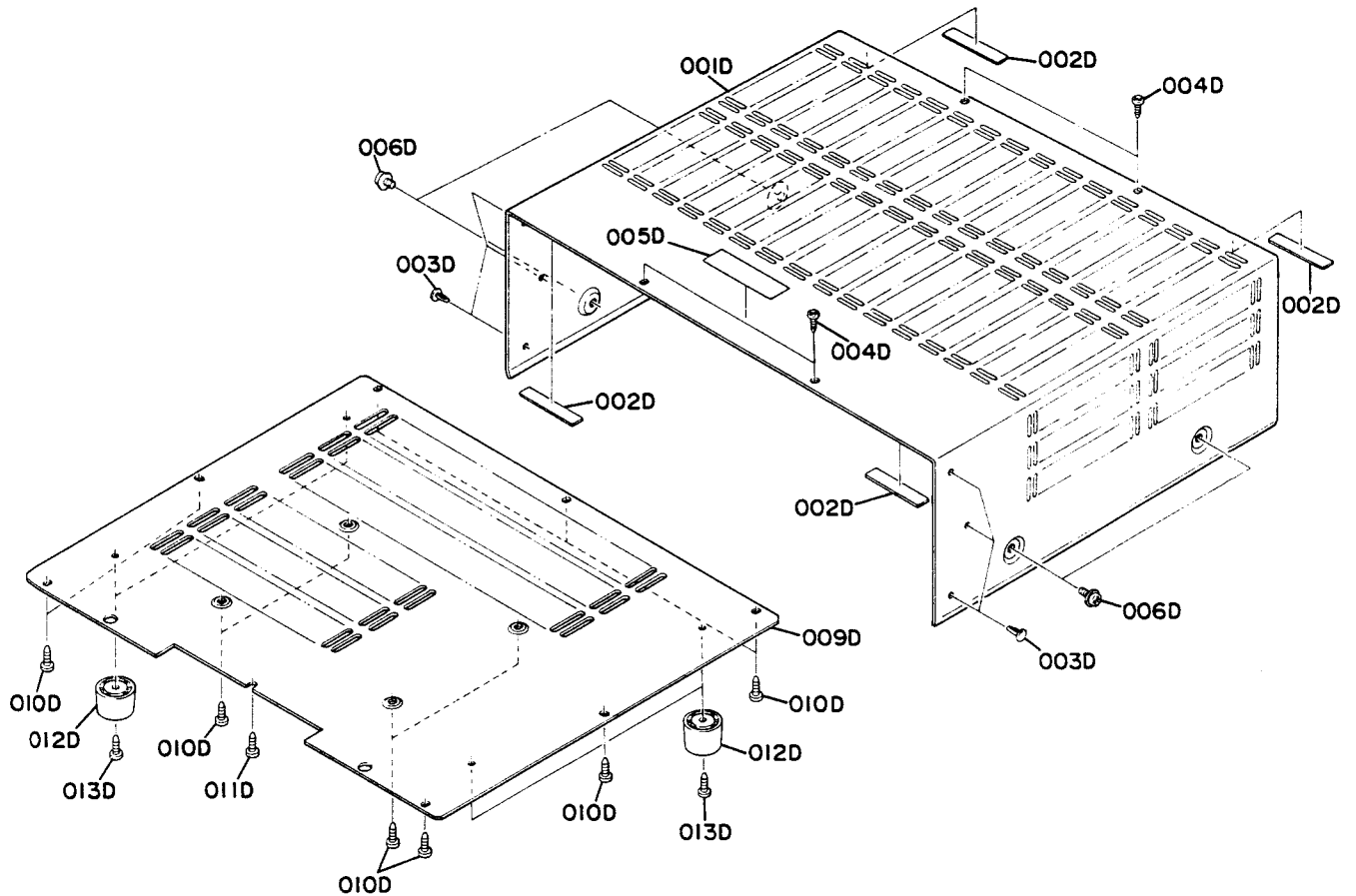
● Front Panel (C01-99)



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
A	1	201H063400	Front Panel Assembly
001B	1	201H063010	Escutcheon, Front Panel
002B	1	2461063030	Escutcheon, Pocket Frame
003B	1	2144160020	Bracket
004B	1	201H063020	Escutcheon, Pocket Panel
005B	2	51060305A9	P.H.M. Screw P3 x 5
006B	1	2461271010	Holder
007B	2	51042610A0	F.H.M. Screw F2.6 x 10
008B	2	53112603A0	Hexagon Nut
009B	2	51100204E0	B.H.M. Screw B2 x 4
010B	1	1143259010	Bushing, Pin Holder
011B	4	2978259010	Bushing, Push Switch
012B	1	201H158010	Window, Meter

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
B	1	2144063410	Pocket Cover Assembly
020B	1	2461063050	Escutcheon, Pocket Cover
021B	1	2461253110	Handle
022B	2	2461254010	Pin
023B	1	2461254020	Pin
024B	1	53110303E9	Hexagon Nut
025B	4	2461107020	Sheet
037B	2	5134030680	F.H. Tapped Screw F3 x 6
038B	2	51280308U0	B.H. Tapped Screw B3 x 8

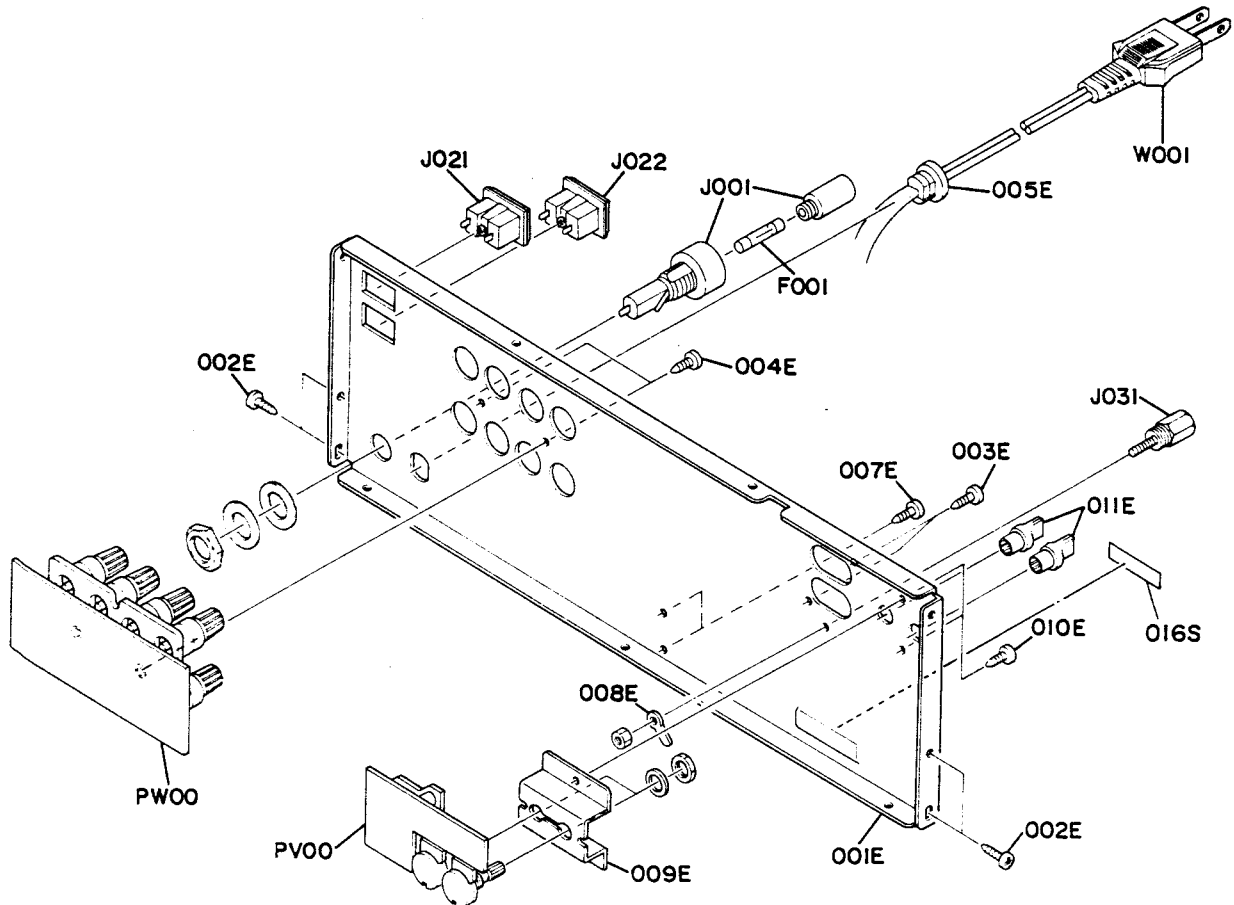
• Top Cover (C02-99)



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001D	1	2461257010	Lid, Top Cover
002D	4	2965118010	Spacer
003D	6	2991259010	Bushing
004D	4	51260308Z0	Tapped Screw 3 x 8
005D	1	2144861010	Label
006D	4	51480406Z9	F. Washer Screw 4 x 6

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
009D	1	2144257010	Lid, Bottom Cover
010D	11	51280410U0	B.H. Tapped Screw B4 x 10
011D	1	51280406U0	B.H. Tapped Screw B4 x 6
012D	4	2759057010	Leg
013D	4	51570410S0	P. Taptite Screw P4 x 10

• Rear Panel (C03-99)



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001E	1	201H160210	Bracket, Rear Panel
002E	4	51100308S9	B.H.M. Screw B3 x 8
003E	2	51280308U0	B.H. Tapped Screw B3 x 8
004E	2	51280308U0	B.H. Tapped Screw B3 x 8
005E	1	1455259090	Bushing
007E	2	51280308U0	B.H. Tapped Screw B3 x 8
008E	1	62040029W0	Lug
009E	1	201H160020	Bracket, Gain
010E	2	51280308U0	B.H. Tapped Screw B3 x 8
011E	2	2988154010	Knob, Gain
016S	1	2112265010	Indicator

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
F001	1	FS10800010	Fuse 8A 250V
J001	1	YJ08000300	Jack, Fuse Holder
J021	1	YJ04000560	Jack, AC Outlet
J022	1	YJ04000560	Jack, AC Outlet
J031	1	YT01010050	Terminal, Ground
W001	1	YC02400180	A.C. Power Cord

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
	F		
031B	4	2462154220	Knob, Push Switch
001G	1	201H160010	Bracket, Front Chassis
004G	4	51100306A9	B.H.M. Screw B3 x 6
008G	1	201H063030	Escutcheon, Meter
009G	2	201H053020	Cover
010G	2	51260308B0	B.H. Tapped Screw B3 x 8
013G	1	51280308B0	B.H. Tapped Screw B3 x 8
015G	2	201H053010	Cover
017G	2	201H274010	Reflector
018G	2	201H274020	Reflector
019G	4	51280308B0	B.H. Tapped Screw B3 x 8
005G	2	51100306A9	B.H.M. Screw B3 x 6
007G	2	201H118010	Spacer

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
	F		
020G	4	5128031480	B.H. Tapped Screw 83 x 14
023G	2	5128030880	B.H. Tapped Screw 83 x 8
025G	2	201H303010	Mask
026G	1	2112053030	Buffer for Led
M001	1	IM11098010	D.C. Meter
M002	1	IM11098010	D.C. Meter
V001	1	IN10080520	Lamp 300mA 8V
V002	1	IN10080520	Lamp 300mA 8V

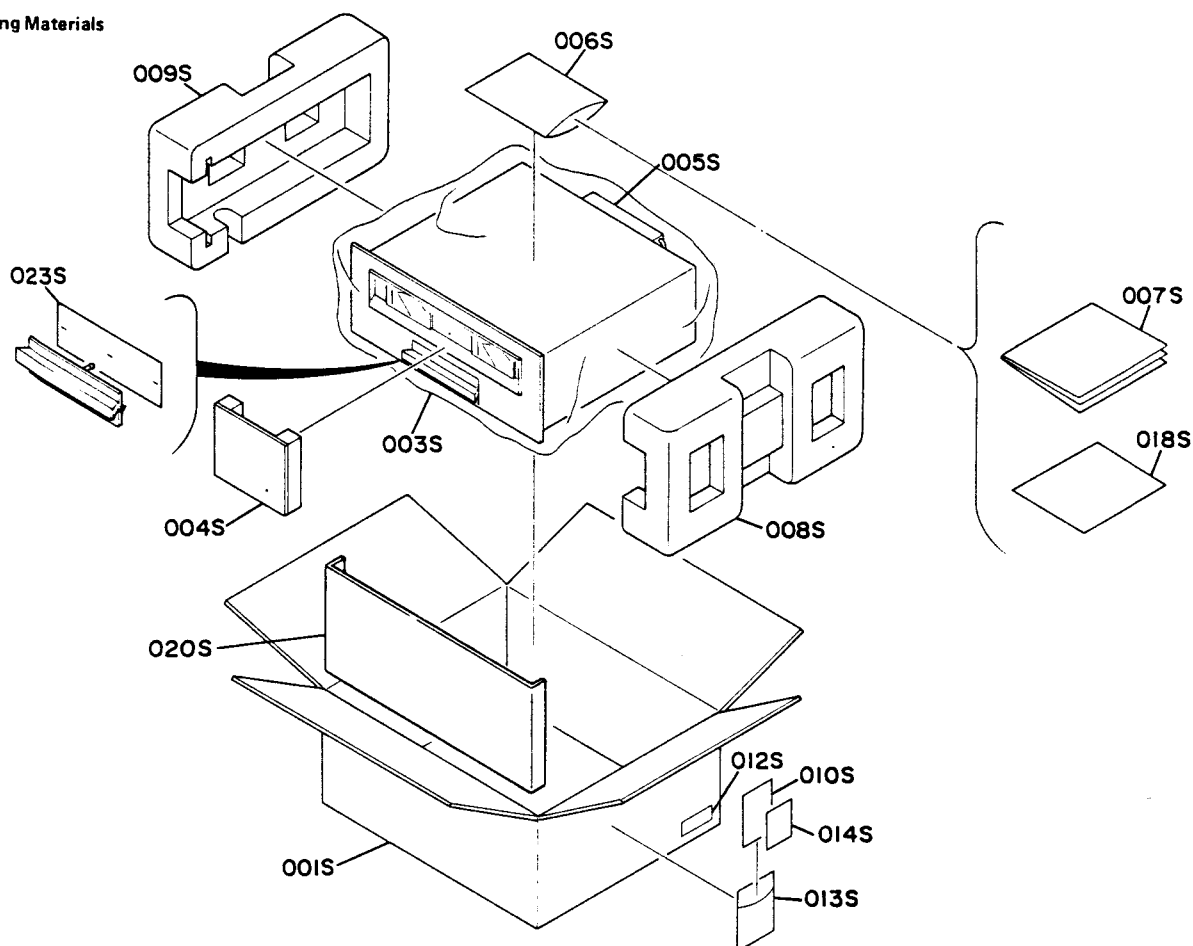
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REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001F	1	2144105010	Chassis, Center
002F	1	2979105020	Side Chassis (R)
003F	1	2979105030	Side Chassis (L)
005F	6	51280408B0	B.H. Tapped Screw B4 x 8
006F	4	51280308B0	B.H. Tapped Screw B3 x 8
008F	4	51490410S9	L.Washer Screw 4 x 10
014F	6	51480406S9	F. Washer Screw 4 x 6
015F	1	2144123010	Contactor
016F	1	2144123020	Contactor
017F	1	2144123030	Contactor
019F	3	51100308E9	B.H.M. Screw B3 x 8
044F	1	51280308B0	B.H. Tapped Screw B3 x 8
045F	2	51280308B0	B.H. Tapped Screw B3 x 8
048F	1	2129005010	Clamper
050F	1	2144160090	Bracket
051F	2	51500308B0	F.H. Taptite Screw F3 x 6
052F	2	51280306B0	B.H. Tapped Screw B3 x 6
001L	1	2144267010	Heatsink
002L	1	2144160040	Bracket
003L	1	2144160050	Bracket
004L	4	51280306B0	B.H. Tapped Screw B3 x 6
007L	8	2144259020	Bushing
008L	8	52730310S9	H.S. Head Bolt 3 x 10
009L	8	54020301E0	Flat Washer, P.
010L	8	54040302N0	Spring Washer
011L	1	2144160070	Bracket
012L	2	51280306B0	B.H. Tapped Screw B3 x 6
013L	2	51280308U0	B.H. Tapped Screw B3 x 8
023L	8	51280308B0	B.H. Tapped Screw B3 x 8
024L	4	51280308B0	B.H. Tapped Screw B3 x 8
030L	1	2144267020	Heatsink
031L	1	51280314B0	B.H. Tapped Screw B3 x 14
032L	2	51280308U0	B.H. Tapped Screw B3 x 8
033L	1	2887005110	Clamper
040L	1	2144160060	Bracket
041L	3	51280308U0	B.H. Tapped Screw B3 x 8
042L	2	51280308U0	B.H. Tapped Screw B3 x 8
043L	2	51280308U0	B.H. Tapped Screw B3 x 8
047L	4	51260308B0	Screw 3 x 8
048L	4	51280308U0	B.H. Tapped Screw B3 x 8
049L	1	2144109040	Shield
050L	4	59030808P0	Washer
051L	2	2144118010	Spacer
053L	1	2144123040	Contactor
054L	1	2144123050	Contactor
055L	1	2144123060	Contactor
056L	3	62031240W0	Lug
053F	4	62051870W0	Lug for C009, C010
054F	1	62030049W0	Lug
055F	3	62030049W0	Lug
016L	1	2886005020	Clamper
019L	2	2990267080	Heatsink
020L	2	2990115020	Spring
022L	4	2212267023	Heat Sink
034L	1	2144267040	Heatsink
035L	2	51280308B0	B.H. Tapped Screw B3 x 8
044L	1	51280306U0	B.H. Tapped Screw B3 x 6

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
C001	1	EB22907510	Elect Cap. 2200 μ F 75V
C002	1	EB22907510	Elect Cap. 2200 μ F 75V
C003	1	DF17104520	Film Cap. 0.1 μ F $\pm$ 20% 200V
C004	1	DF17104520	Film Cap. 0.1 μ F $\pm$ 20% 200V
C005	1	DF17104520	Film Cap. 0.1 μ F $\pm$ 20% 200V
C006	1	DF17104520	Film Cap. 0.1 μ F $\pm$ 20% 200V
C007	1	DF16105520	Film Cap. 1 μ F $\pm$ 10% 100V
C008	1	DF16105520	Film Cap. 1 μ F $\pm$ 10% 100V
Δ L001	1	TS60508020	Power Transformer
Δ L011	1	LY20480050	Relay
Δ Q001	1	HD20004290	Diode S5VB-20
Δ R001	1	GS10222030	Resistor 2.2K Ω $\pm$ 10% 3W
Δ R002	1	GS10222030	Resistor 2.2K Ω $\pm$ 10% 3W
Q601	1	HT315681S0	Transistor 2SC1568(S)
Q602	1	HT315681S0	Transistor 2SC1568(S)
C009	1	DF17105540	Film 1 μ F $\pm$ 20% 200V
C010	1	DF17105540	Film 1 μ F $\pm$ 20% 200V
J033	1	YL01040160	Lug

• Packing Materials



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001S	1	201H801010	Packing Case
003S	1	9090909040	Polyethylene Sheet
004S	1	2144809020	Cushion
005S	1	2864804010	Sleeve
006S	1	9013025010	Polyethylene Bag
007S	1	201H851110	Instructions
008S	1	2139809010	Cushion (R)
009S	1	2139809020	Cushion (L)

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
010S	1	9631000110	Guarantee Card
012S	2	9526019040	Serial No. Card
013S	1	2976813020	Envelope
014S	1	2976851040	Instructions
018S	1	9650000030	S. Station Card
020S	1	2144807010	Reinforcing Sheet
023S	1	2461107010	Sheet

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REF. DESIG.	QTY F	PART NO.	DESCRIPTION
P600	1	WK21441210	P600-POWER AMP. PROTECTOR CIRCUIT BOARD P.W. Board, Power Amp. Protector
			P600-CAPACITORS
C601	1	DF55271510	Film 270pF ±5%
C602	1	DF55271510	Film 270pF ±5%
C603	1	EA10602530	Elect 10μF 25V
C604	1	EA10602530	Elect 10μF 25V
C605	1	DF16104350	Film 0.1μF ±10%
C606	1	DF16104350	Film 0.1μF ±10%
C609	1	DF17104520	Film 0.1μF ±20%
C610	1	DF17104520	Film 0.1μF ±20%
C613	1	EA10505030	Elect 1μF 50V
C614	1	EA47602530	Elect 47μF 25V
C615	1	EA22601630	Elect 22μF 16V
C616	1	EA22708020	Elect 220μF 80V
C617	1	EA22708020	Elect 220μF 80V
C618	1	DF16105530	Film 1μF ±10% 200V
C619	1	DF16105530	Film 1μF ±10% 200V
C620	1	DK18103510	Ceramic 0.01μF
C621	1	DK18103510	Ceramic 0.01μF
C622	1	DK18103510	Ceramic 0.01μF
C623	1	DF16473350	Film 0.047μF ±10%
C624	1	DF16473350	Film 0.047μF ±10%
C626	1	EA10602530	Elect 10μF 25V
C629	1	DF16473350	Film 0.047μF ±10%
C630	1	DF16473350	Film 0.047μF ±10%
C631	1	DF17103350	Film 0.01μF ±20%
C632	1	DF16222350	Film 2200pF ±10%
C633	1	DF16105510	Film 1μF ±10%
C634	1	DF16105510	Film 1μF ±10%
			P600-RESISTORS (All Resistors are ±5% and ¼W)
R601	1	GD05472140	4.7KΩ
R602	1	GD05472140	4.7KΩ
R603	1	GD05153140	15KΩ
R604	1	GD05153140	15KΩ
R605	1	GD05102140	1KΩ
R606	1	GD05102140	1KΩ
R607	1	GD05273140	27KΩ
R608	1	GD05273140	27KΩ
R609	1	GD05273140	27KΩ
R610	1	GD05273140	27KΩ
R611	1	GD05821140	820Ω
R612	1	GD05821140	820Ω
R613	1	GG05470140	47Ω
R614	1	GG05470140	47Ω
R615	1	GG05470140	47Ω
R616	1	GG05470140	47Ω
R617	1	GG05471140	470Ω
R618	1	GG05471140	470Ω
R619	1	GA05562010	5.6KΩ
R620	1	GA05562010	5.6KΩ
R621	1	GG05330140	33Ω
R622	1	GG05330140	33Ω
R623	1	GG05330140	33Ω
R624	1	GG05330140	33Ω
R625	1	GG05470140	47Ω

REF. DESIG.	QTY F	PART NO.	DESCRIPTION
R626	1	GG05470140	47Ω
R627	1	75061001P0	Jumper
R628	1	75061001P0	Jumper
R629	1	GG05220140	22Ω
R630	1	GG05220140	22Ω
R631	1	GG05220140	22Ω
R632	1	GG05220140	22Ω
R633	1	GG05220140	22Ω
R634	1	GG05220140	22Ω
R635	1	GG05220140	22Ω
R636	1	GG05220140	22Ω
R637	1	GO10272050	0.27Ω ±10% 5W
R638	1	GO10272050	0.27Ω ±10% 5W
R639	1	GO10272050	0.27Ω ±10% 5W
R640	1	GO10272050	0.27Ω ±10% 5W
R641	1	GO10272050	0.27Ω ±10% 5W
R642	1	GO10272050	0.27Ω ±10% 5W
R643	1	GO10272050	0.27Ω ±10% 5W
R644	1	GO10272050	0.27Ω ±10% 5W
R645	1	GD05472140	4.7KΩ
R646	1	GD05472140	4.7KΩ
R649	1	GD05682140	6.8KΩ
R650	1	GD05102140	1KΩ
R651	1	GD05273140	27KΩ
R652	1	GD05273140	27KΩ
R653	1	GA05100030	10Ω 3W
R654	1	GA05100030	10Ω 3W
R655	1	RC10022120	2.2Ω ±10% ½W
R656	1	RC10022120	2.2Ω ±10% ½W
R657	1	GD05823140	82KΩ
R658	1	GD05823140	82KΩ
R659	1	GD05154140	150KΩ
R660	1	GD05183140	18KΩ
R661	1	GD05473140	47KΩ
R662	1	GD05473140	47KΩ
R663	1	GD05474140	470KΩ
R664	1	GD05273140	27KΩ
R666	1	GD05223140	22KΩ
R667	1	GG05183120	18KΩ ½W
R668	1	GA05102010	1KΩ 1W
R671	1	GA05562010	5.6KΩ 1W
R672	1	GA05562010	5.6KΩ 1W
R673	1	GJ05100010	10Ω 1W
			P600-SEMICONDUCTOR
Q601	1	HT315681S0	Transistor 2SC1568(S)
Q602	1	HT315681S0	Transistor 2SC1568(S)
Q603	1	HT110152A0	Transistor 2SA1015(D or Y)
Q604	1	HT110152A0	Transistor 2SA1015(D or Y)
Q605	1	HT326322R0	Transistor 2SC2632(R or S)
Q606	1	HT326322R0	Transistor 2SC2632(R or S)
Q607	1	HT111242R0	Transistor 2SA1124(R or S)
Q608	1	HT111242R0	Transistor 2SA1124(R or S)
Q609	1	HT325912B0	Transistor 2SC2591(Q or R)
Q610	1	HT111112B0	Transistor 2SA1111(Q or R)
Q611	1	HT325912B0	Transistor 2SC2591(Q or R)
Q612	1	HT111112B0	Transistor 2SA1111(Q or R)
Q613	1	HT327062A0	Transistor 2SC2706(R or O)
Q614	1	HT111462A0	Transistor 2SA1146(R or O)
Q615	1	HT327062A0	Transistor 2SC2706(R or O)
Q616	1	HT111462A0	Transistor 2SA1146(R or O)
Q617	1	HT327062A0	Transistor 2SC2706(R or O)
Q618	1	HT111462A0	Transistor 2SA1146(R or O)
Q619	1	HT327062A0	Transistor 2SC2706(R or O)
Q620	1	HT111462A0	Transistor 2SA1146(R or O)

REF. DESIG.	QTY F	PART NO.	DESCRIPTION
Q621	1	HT318152A0	Transistor 2SC1815(O or Y)
Q622	1	HT318152A0	Transistor 2SC1815(O or Y)
Q623	1	HT110152A0	Transistor 2SA1015(O or Y)
Q624	1	HC10042050	IC TA7317P
Q625	1	HD20010210	Diode 1S2471G
Q626	1	HD20010210	Diode 1S2471G
Q627	1	HD20010210	Diode 1S2471G
Q628	1	HD20010210	Diode 1S2471G
Q629	1	HD20015030	Diode DS135D
Q630	1	HD20015030	Diode DS135D
Q631	1	HD20015030	Diode DS135D
Q632	1	HD20015030	Diode DS135D
Q633	1	HD20011010	Diode W06C
Q634	1	HD20011010	Diode W06C
Q635	1	HD20011010	Diode W06C
Q636	1	HD20011010	Diode W06C
Q639	1	HD20011050	Diode 1S1555
Q640	1	HD20015030	Diode DS135D
Q641	1	HD20011050	Diode 1S1555
Q642	1	HD20015030	Diode DS135D
Q643	1	HD20015030	Diode DS135D
Q644	1	HD20015030	Diode DS135D
Q645	1	HD20015030	Diode DS135D
Q647	1	HD20011050	Diode 1S1555
Q648	1	HD20011050	Diode 1S1555
Q649	1	HD30064090	Zener BZ-240
L601	1	LJ28115090	Coil
L602	1	LJ28115090	Coil
L603	1	LY20480060	Relay 48V DC AR3423
P700	1	WK21441220	P600-MISCELLANEOUS Circuit Board P.W. Board, Voltage Amp.
C701	1	DF55221090	Film 220pF ±5%
C702	1	DF55221090	Film 220pF ±5%
C703	1	DF55271090	Film 270pF ±5%
C704	1	DF55271090	Film 270pF ±5%
C709	1	DF76270550	Film 27pF ±10%
C710	1	DF76270550	Film 27pF ±10%
C711	1	DF16474510	Film 0.47μF ±10%
C712	1	DF16474510	Film 0.47μF ±10%
C713	1	DF16102350	Film 0.001μF ±10%
C714	1	DF16102350	Film 0.001μF ±10%
C715	1	EA47701630	Elect 470μF 16V
C716	1	EA47701630	Elect 470μF 16V
C771	1	EA10703540	Elect 100μF 35V
C772	1	EA10703540	Elect 100μF 35V
C773	1	EA47601630	Elect 47μF 16V
C775	1	EA10708020	Elect 100μF 80V
C776	1	EA10708020	Elect 100μF 80V
C777	1	DF16102510	Film 0.001μF ±10%
C778	1	DF16102510	Film 0.001μF ±10%
C780	1	DF16102510	Film 0.001μF ±10%
C781	1	DF16102510	Film 0.001μF ±10%

REF. DESIG.	QTY F	PART NO.	DESCRIPTION
R701	1	GD05104140	P700-RESISTORS (All Resistors are ±5% and 1/4W)
R702	1	GD05104140	100KΩ
R703	1	GD05102140	100KΩ
R704	1	GD05102140	1KΩ
R705	1	GD05102140	1KΩ
R706	1	GD05561140	560Ω
R707	1	GD05561140	560Ω
R708	1	GD05561140	560Ω
R709	1	GD05222140	560Ω
R710	1	GD05222140	2.2KΩ
R711	1	GD05222140	2.2KΩ
R712	1	GD05222140	2.2KΩ
R713	1	GD05102140	1KΩ
R714	1	GD05102140	1KΩ
R715	1	GD05102140	1KΩ
R716	1	GD05102140	1KΩ
R717	1	GD05473140	47KΩ
R718	1	GD05473140	47KΩ
R721	1	GD05101140	100Ω
R722	1	GD05101140	100Ω
R723	1	GD05561140	560Ω
R724	1	GD05561140	560Ω
R725	1	GD05154140	150KΩ
R726	1	GD05154140	150KΩ
R727	1	GD05682140	6.8KΩ
R728	1	GD05682140	6.8KΩ
R729	1	GD05181140	180Ω
R730	1	GD05181140	180Ω
R731	1	GD05561140	560Ω
R732	1	GD05561140	560Ω
R733	1	GD05472140	4.7KΩ
R734	1	GD05472140	4.7KΩ
R735	1	GD05472140	4.7KΩ
R736	1	GD05472140	4.7KΩ
R737	1	GD05472140	4.7KΩ
R738	1	GD05472140	4.7KΩ
R739	1	GD05472140	4.7KΩ
R740	1	GD05472140	4.7KΩ
R741	1	GG05331140	330Ω
R742	1	GG05331140	330Ω
R743	1	GG05331140	330Ω
R744	1	GG05331140	330Ω
R749	1	GD05123140	12KΩ
R750	1	GD05123140	12KΩ
R751	1	GA05272020	2.7KΩ 2W
R752	1	GA05182020	1.8KΩ 2W
R753	1	GD05104140	100KΩ
R754	1	GD05104140	100KΩ
R755	1	GD05222140	2.2KΩ
R756	1	GD05222140	2.2KΩ
R757	1	GD05222140	2.2KΩ
R758	1	GD05222140	2.2KΩ
R759	1	GD05102140	1KΩ
R760	1	GD05102140	1KΩ
R761	1	GD05474140	470KΩ

REF. DESIG.	QTY F	PART NO.	DESCRIPTION
R762	1	GD05474140	470K Ω
R763	1	GD05474140	470K Ω
R764	1	GD05474140	470K Ω
R771	1	GD05102140	1K Ω
R772	1	GD05102140	1K Ω
R773	1	GD05332140	3.3K Ω
R774	1	GD05332140	3.3K Ω
R775	1	GD05272140	2.7K Ω
R776	1	GD05272140	2.7K Ω
R777	1	GA05472010	4.7K Ω 1W
R779	1	GD05473140	47K Ω
R780	1	GD05473140	47K Ω
R781	1	GD05123140	12K Ω
R782	1	GD05473140	47K Ω
R783	1	GD05821140	820 Ω
P700-SEMICONDUCTORS			
Q701	1	HC10021020	IC M47F(C)
Q702	1	HC10021020	IC M47F(C)
Q703	1	HT322592F0	Transistor 2SC2259(F or G)
Q704	1	HT322592F0	Transistor 2SC2259(F or G)
Q705	1	HT109952A0	Transistor 2SA995(F or G)
Q706	1	HT109952A0	Transistor 2SA995(F or G)
Q707	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q708	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q709	1	HT109702A0	Transistor 2SA970(GR or BL)
Q710	1	HT109702A0	Transistor 2SA970(GR or BL)
Q713	1	HT109702A0	Transistor 2SA970(GR or BL)
Q714	1	HT109702A0	Transistor 2SA970(GR or BL)
Q715	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q716	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q717	1	HT111242R0	Transistor 2SA1124(R or S)
Q718	1	HT111242R0	Transistor 2SA1124(R or S)
Q719	1	HT326322R0	Transistor 2SC2632(R or S)
Q720	1	HT326322R0	Transistor 2SC2632(R or S)
Q721	1	HC10019020	IC AN6552(4558)
Q722	1	HC10019020	IC AN6552(4558)
Q723	1	HD30025090	Zener WZ150
Q724	1	HD30025090	Zener WZ150
Q725	1	HD20011050	Diode 1S1555
Q726	1	HD20011050	Diode 1S1555
Q727	1	HD20011050	Diode 1S1555
Q728	1	HD20011050	Diode 1S1555
Q729	1	HD20011050	Diode 1S1555
Q730	1	HD20011050	Diode 1S1555
Q771	1	HT325902B0	Transistor 2SC2590(Q or R)
Q772	1	HT111102B0	Transistor 2SA1110(Q or R)
Q773	1	HT317752D0	Transistor 2SC1775A(D or E)
Q774	1	HT108722D0	Transistor 2SA872A(D or E)
Q775	1	HT317752D0	Transistor 2SC1775A(D or E)
Q776	1	HT108722D0	Transistor 2SA872A(D or E)
Q777	1	HD30009010	Zener HZ12B2L
P700-PLUG			
J701	1	YP01001030	Plug (3P) Gold

REF. DESIG.	QTY F	PART NO.	DESCRIPTION
PN00	1	YH22870210	PN00-ASO PROTECTOR CIRCUIT BOARD P.W. Board, ASO Protector
PN00-CAPACITORS			
CN01	1	DF16222350	Film 2200pF $\pm 10\%$
CN02	1	DF16222350	Film 2200pF $\pm 10\%$
CN03	1	DF16222350	Film 2200pF $\pm 10\%$
CN04	1	DF16222350	Film 2200pF $\pm 10\%$
PN00-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$)			
RN01	1	GD05331140	330 Ω
RN02	1	GD05331140	330 Ω
RN03	1	GD05331140	330 Ω
RN04	1	GD05331140	330 Ω
RN09	1	GD05472140	4.7K Ω
RN10	1	GD05472140	4.7K Ω
RN11	1	GD05472140	4.7K Ω
RN12	1	GD05472140	4.7K Ω
RN13	1	GD05273140	27K Ω
RN14	1	GD05273140	27K Ω
PN00-SEMICONDUCTORS			
QN01	1	HT309452C0	Transistor 2SC945(P or K)
QN02	1	HT309452C0	Transistor 2SC945(P or K)
QN03	1	HT107332C0	Transistor 2SA733(P or K)
QN04	1	HT107332C0	Transistor 2SA733(P or K)
QN05	1	HD20011050	Diode 1S1555
QN06	1	HD20011050	Diode 1S1555
QN07	1	HD20011050	Diode 1S1555
QN08	1	HD20011050	Diode 1S1555
QN09	1	HD20002210	Diode 1S2472
QN10	1	HD20002210	Diode 1S2472
QN11	1	HD20002210	Diode 1S2472
QN12	1	HD20002210	Diode 1S2472
PP00-FUSE CIRCUIT BOARD			
PP00	1	WF21440010	P.W. Board, Fuse
Δ FP01	1	FS10100090	Fuse 1A 250V
Δ FP02	1	FS10100090	Fuse 1A 250V
Δ FP03	1	FS10100090	Fuse 1A 250V
JP01	6	YJ08000170	Jack, Fuse Clip
JP06			
PS00	1	WK201H1620	PS00-SPEAKER SW. & A-B SW. CIRCUIT BOARD P.W. Board, Speaker SW. & A-B SW.
PS00-RESISTORS			
RS01	1	RA05020130	4.7K Ω (B), Trimming
RS02	1	RA05020130	4.7K Ω (B), Trimming
RS03	1	RA01020150	1K Ω (B), Trimming
RS04	1	RA01020150	1K Ω (B), Trimming
RS05	1	GD05102140	1K Ω $\pm 5\%$ $\frac{1}{4}W$
RS06	1	GD05102140	1K Ω $\pm 5\%$ $\frac{1}{4}W$
RS07	1	GD05101140	100 Ω $\pm 5\%$ $\frac{1}{4}W$
RS08	1	GD05101140	100 Ω $\pm 5\%$ $\frac{1}{4}W$
RS09	1	GD05181140	180 Ω $\pm 5\%$ $\frac{1}{4}W$
PS00-SWITCHES			
SS01	1	SP04020200	Push Switch, System 1-2
SS02	1	SP04010270	Push Switch, Class A

REF. DESIG.	QTY F	PART NO.	DESCRIPTION
PU00	1	WK201H1640	PU00-POWER SWITCH CIRCUIT BOARD P.W. Board, Power Switch
GU01	1	BF10400030	Cap. Comp. 0.1 μ F + 120 Ω
SU01	1	SP01010320	Push Switch, Power
PV00	1	WK201H1630	PV00-INPUT CIRCUIT BOARD P.W. Board, Input
CV01	1	EQ10601610	PV00-CAPACITORS Elect 10 μ F 16V
CV02	1	EQ10601610	Elect 10 μ F 16V
RV01	1	RK01040170	PV00-RESISTORS 100K Ω (B), Variable
RV02	1	RK01040170	100K Ω (B), Variable
JV01	1	YT02040320	PV00-TERMINAL Terminal, (4P) RCA Pin Jack
PW00	1	WK201H1660	PW00-SPEAKER TERMINAL CIRCUIT BOARD P.W. Board, Speaker Terminal
JW01	1	YT01080030	Terminal, Speaker System 1, 2
PX00	1	WK201H1610	PX00-METER CIRCUIT BOARD P.W. Board, Meter
CX01	1	EA10702530	PX00-CAPACITORS Elect 100 μ F 25V
CX02	1	EA10702530	Elect 100 μ F 25V
CX03	1	EA10702530	Elect 100 μ F 25V
CX04	1	EA10702530	Elect 100 μ F 25V
CX05	1	DF17104350	Film 0.1 μ F $\pm$ 20%
CX06	1	DF17104350	Film 0.1 μ F $\pm$ 20%
CX07	1	EA47601030	Elect 47 μ F 10V
CX08	1	EA47601030	Elect 47 μ F 10V
RX01	1	GD05104140	PX00-RESISTORS (All Resistors are $\pm$ 5% and $\frac{1}{4}$ W) 100K Ω
RX02	1	GD05104140	100K Ω
RX03	1	GA05821020	820 Ω 2W
RX04	1	GA05821020	820 Ω 2W
RX05	1	GD05470140	47 Ω
RX06	1	GD05470140	47 Ω
RX07	1	GD05150140	15 Ω
RX08	1	GD05150140	15 Ω
RX11	1	RA02020090	2K Ω (B), Trimming
RX12	1	RA02020090	2K Ω (B), Trimming

REF. DESIG.	QTY F	PART NO.	DESCRIPTION
QX01	1	HD20011050	PX00-SEMICONDUCTORS Diode 1S1555
QX02	1	HD20011050	Diode 1S1555
QX03	1	HD20011050	Diode 1S1555
QX04	1	HD20011050	Diode 1S1555
QX05	1	HD20011050	Diode 1S1555
QX06	1	HD20011050	Diode 1S1555
QX07	1	HD20011050	Diode 1S1555
QX08	1	HD20011050	Diode 1S1555
QX09	1	HD10001010	Diode 1N34A
QX10	1	HD10001010	Diode 1N34A
PZ00	1	WK201H1650	PZ00-CLASS A INDICATOR CIRCUIT BOARD P.W. Board, Class A Indicator
QZ01	1	HI10004030	L.E.D. SLP132B

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

規格

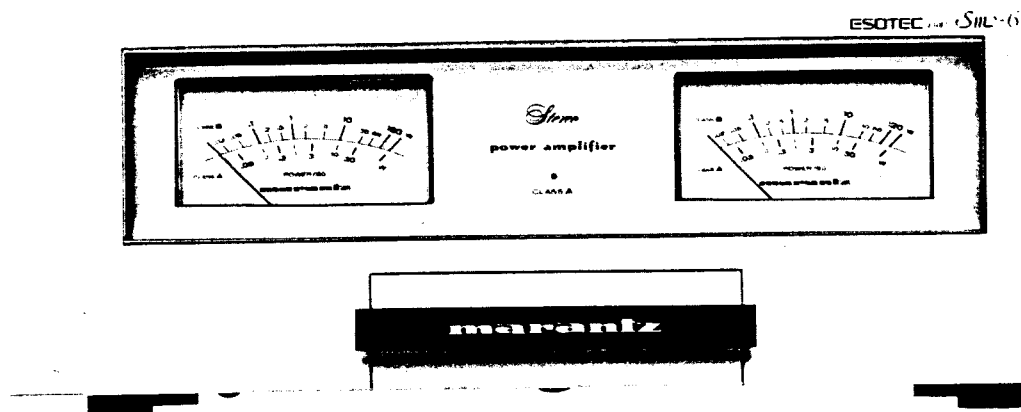
Model Sm-6

定格出力(20Hz~20kHz, 両ch同時駆動)	120W×2(8Ω)
	CLASS A 30W×2 (8Ω) 140W×2(4Ω)
出力帯域幅(8Ω 負荷、THD 0.05%)	5 Hz~100kHz
全高調波歪率(20Hz~20kHz 8Ω 負荷)	0.01%
混変調歪率	0.01%
周波数特性(20Hz~20kHz)	+0, -0.2dB
(DC~100kHz)	+0, -1dB
入力感度およびインピーダンス	1.5V/47kΩ
ダンピングファクター(8Ω 負荷)	100
SN比(IHF-Aカーブ)	118dB

その他

電 源	100VAC, 50/60Hz
消費電力(電気用品取締法)	320W
外形寸法(巾・高さ・奥行き)	416×146×332mm
重 量(セット単体)	14.5kg

仕様規格及び外観は改良のため予告なく変更することがあります。



特長

■ダイナミックなマランツサウンドを再現する 120W×2(クラスB動作)のハイパワー

左右一組のライン入力からのオーディオ信号はデュアル FET を使った入力バッファアンプに入り、デュアルトランジスタを使用した第1段目の差動増巾回路に入ります。さらに差動出力の片側を位相反転し、バッファアンプを通して完全プッシュプル増巾段に導かれ、終段出力回路をドライブします。

電力増巾段は新開発のスーパーハイ ft のパワートランジスタを平行使用した3段ダーリントン方式の出力段で、大電流と十分な放熱処理能力を備えています。

■対数圧縮型の大型パワーメーター

高級パワーアンプにふさわしく、出力レベル・左右チャンネルのバランスのチェックができる大型パワーメーターを装備しています。このパワーメーターは対数圧縮指示の回路方式を用いていますので、小出力から大出力までをレンジ切換えなしにモニターすることができます。

■純クラスA動作による音楽性豊かなマランツ サウンドの再現

30W 出力の完全なクラスA動作がスイッチで切換えることができ、スイッチング歪の全くない音楽性豊かなマランツサウンドを再現することができます。

マルチチャンネル方式の中・高音域用として使用する場合に最適です。

■音楽性を損なわない保護回路

過負荷保護回路は過大出力電流と電圧を検知し、設定された安全動作領域(A.S.O)内にドライブトランジスタの信号を抑えるように設計されています。この保護回路は、即応特性を持っていますので保護回路が作動しても、再生プログラムに対して邪魔することなくコンスタントに動きます。

■忠実な波形伝送を可能にするLOW TIM設計 によるDCアンプ構成

DCアンプは、忠実な波形伝送を実現させる回路方式であり、特に低音域での位相偏移が全くありません。また、高価なスピーカシステムの接続ミス、プリアンプの故障などによる大出力ポップスノイズから保護するためダイレクト端子とサブソニック端子の両入力端子を装えています。

■その他

大出力を連続的に取り出すため、パワートランジスタの発熱を効率よく放散する能力を持つ高能率ヒートパイプを使用しています。

◇ 調整方法

■ アイドリング電流調整

1. ① フロントパネルのポケットカバー内のCLASS "A" スイッチをCLASS "B" にする。(スイッチを押さない状態)
- ② デジタルボルトメーターをTP1とTP3に接続します。
(L ch) 同様にTP4とTP6に接続します。(R ch)
(L ch R641の両端)
(R ch R642の両端)
- ③ 負荷抵抗 8Ωダミー抵抗
- ④ 各端子の電圧が5mV(18.5mA)になるようにRS03(L ch)、RS04(R ch)を調整します。
(注)この調整は、電源スイッチON後1分経過した後に調整してください。
2. ① CLASS "A" にします。(スイッチを押した状態)
- ② 測定端子はCLASS "B" と同じです。
- ③ 負荷抵抗 8Ωダミー抵抗

- ⑤ 各端子の電圧が190mV(704mA)になるように、RS01(L ch)、RS02(R ch)を調整します。

(注)この調整は、電源スイッチON後1分間経過した後に調整してください。

3. メーター調整

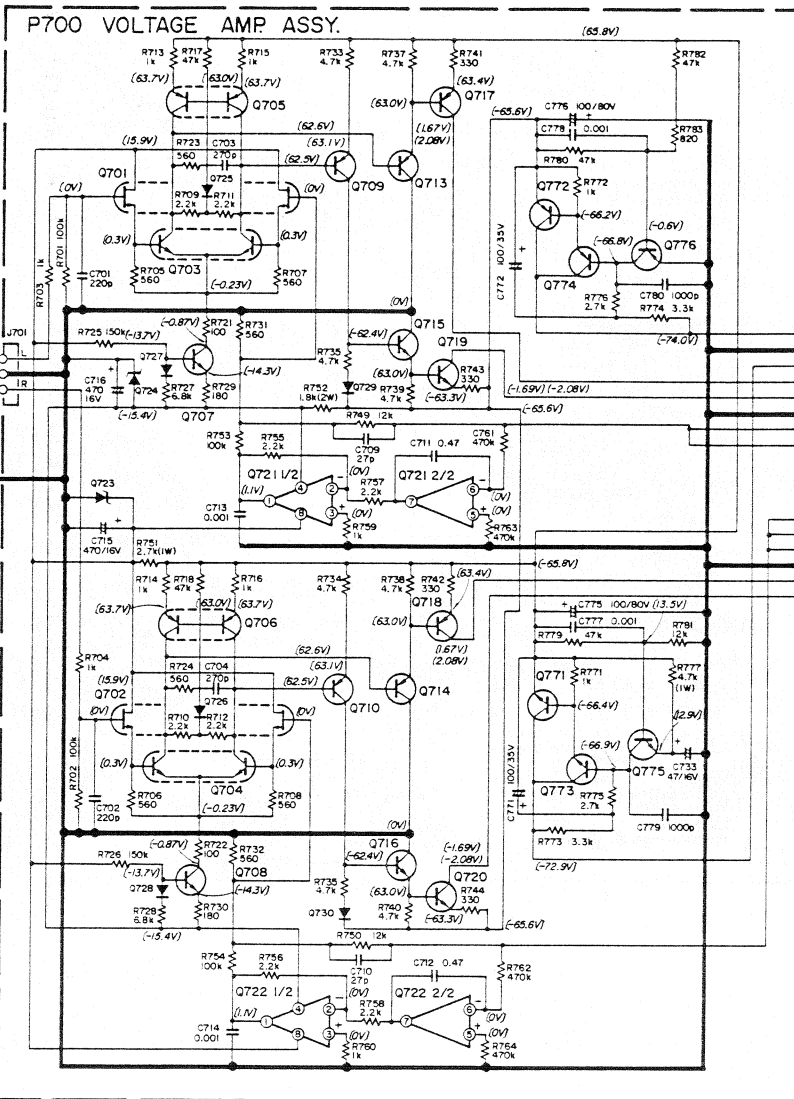
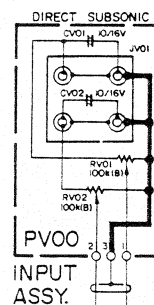
- ① スピーカ端子にVTVM、および8Ωダミー抵抗を接続します。
- ② Main IN端子に1kHz・1.5V程度のオーディオ信号を加えます。
- ③ ●この状態で、ユニットのボリュームを最大にします。
●スピーカ端子に120Wの出力が得られるまで、オーディオ信号を増減させます。(VTVMの指示が31V)
- ④ スピーカ端子に120Wの出力が得られた状態で、RX11(L ch)、RX12(R ch)を調整して、メーターの指示を120Wの位置に合せます。

◇ サービスに必要な測定器

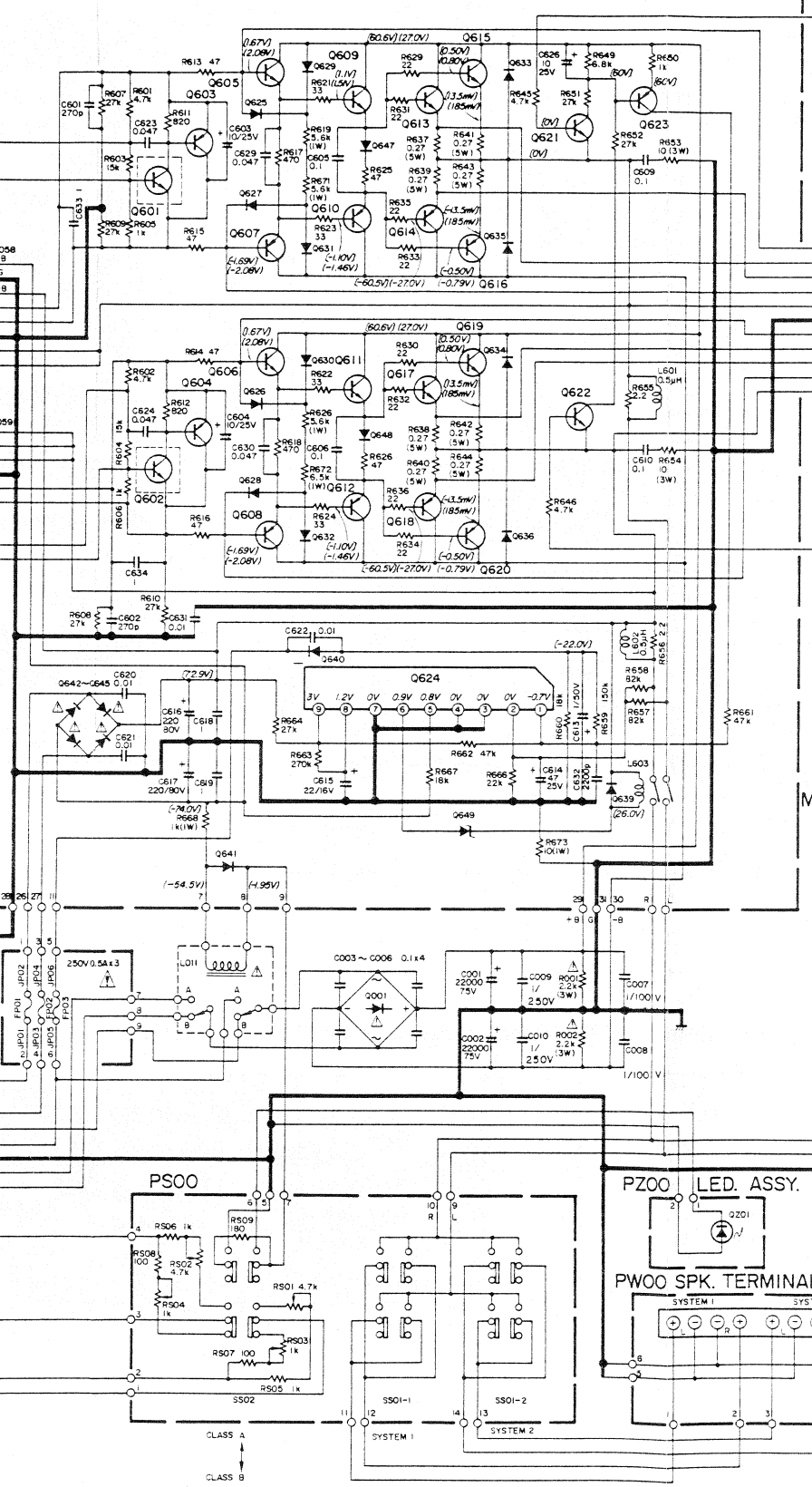
項 目	使 用 法
歪 率 計	アンプ出力の歪と電圧を測定する。
低 周 波 発 振 器	正弦波および矩形波の信号源として使用する。
オ ッ シ ロ ス コ ー プ	波形分析およびトラブル・シューティングに使用する。
V T V M	電圧および抵抗値の測定に使用する。
交 流 ワ ッ ト ・ メ ー タ ー	アンプの一次側消費電力をモニターする。
電 源 電 圧 計	アンプの一次側電源電圧をモニターする。
ス ラ イ ダ ッ ク (0~140VAC, 10A)	アンプの一次側電圧を調節する。
シ ョ ー ト 用 プ ラ グ	雑音を拾わないようにアンプ入力を短絡するのに使用する。
出 力 負 荷 抵 抗 (8Ω±0.5%, 250W)	アンプの出力に8Ωの負荷を与える。
出 力 負 荷 抵 抗 (4Ω±0.5%, 250W)	アンプの出力に4Ωの負荷を与える。

Model SM-6

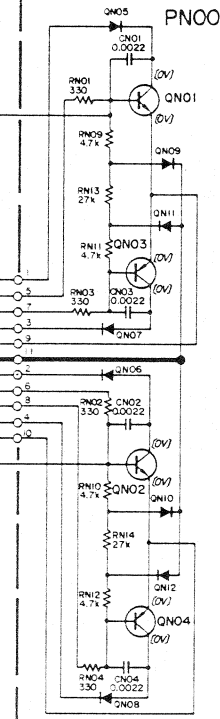
回路図



P600 POWER AMP. and PROTECTOR

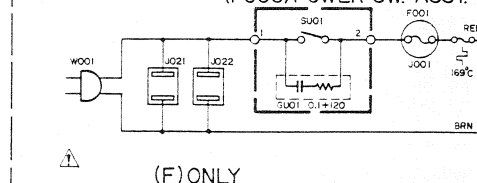


PROTECTOR ASSY. PN00

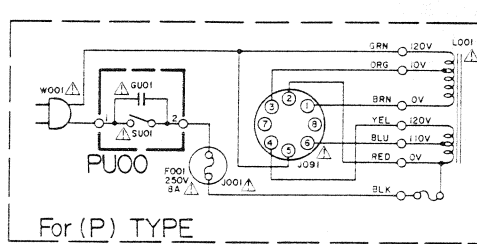


- Q601, Q602 2SC1568(S)
- Q603, Q604 2SA1015(Q)
- Q605, Q606 2SC2632(R,S)
- Q607, Q608 2SA1124(R,S)
- Q609, Q611 2SC2591(Q,R)
- Q610, Q612 2SA1111(Q,R)
- Q613, Q615 Q617, Q619 2SC2706(R,O)
- Q614, Q616 Q618, Q620 2SA1146(R,O)
- Q621, Q622 2SC1815(Q,Y)
- Q623 2SA1015(Q,Y)
- Q624 TA7317P
- Q625 ~ Q628 IS2471(G)
- Q629 ~ Q632, Q640 Q642 ~ Q645 DS135D
- Q633 ~ Q636 W06C
- Q637 ~ Q639 Q641, Q647, Q648 IS1555
- Q649 BZ-240
- Q701, Q702 M47F(C)
- Q703, Q704 2SC2259(F,G)
- Q705, Q706 2SA995(F,G)
- Q707, Q708 Q715, Q716 2SC2240(GR,BL)
- Q709, Q710 Q713, Q714 2SA970(GR,BL)
- Q717, Q718 Q719, Q720 2SC2632(R,S)
- Q721, Q722 AN6552
- Q723, Q724 WZ-150
- Q725 ~ Q730 IS1555
- QN01, QN02 2SC945(P,K)
- QN03, QN04 2SA733(P,K)
- QN05 ~ QN08 IS1555
- QN09 ~ QN12 IS2472
- Q771 2SC2590(Q,R)
- Q772 2SA1110(Q,R)
- Q773, Q775 2SC1775A(D,E)
- Q774, Q776 2SA872A(D,E)
- Q777 HZ1282L
- QX01 ~ QX08 IS1555
- QX09, QX10 IN34A
- Q001 55VB-20
- QZ01 SLP132B

(PU00) POWER SW. ASSY.



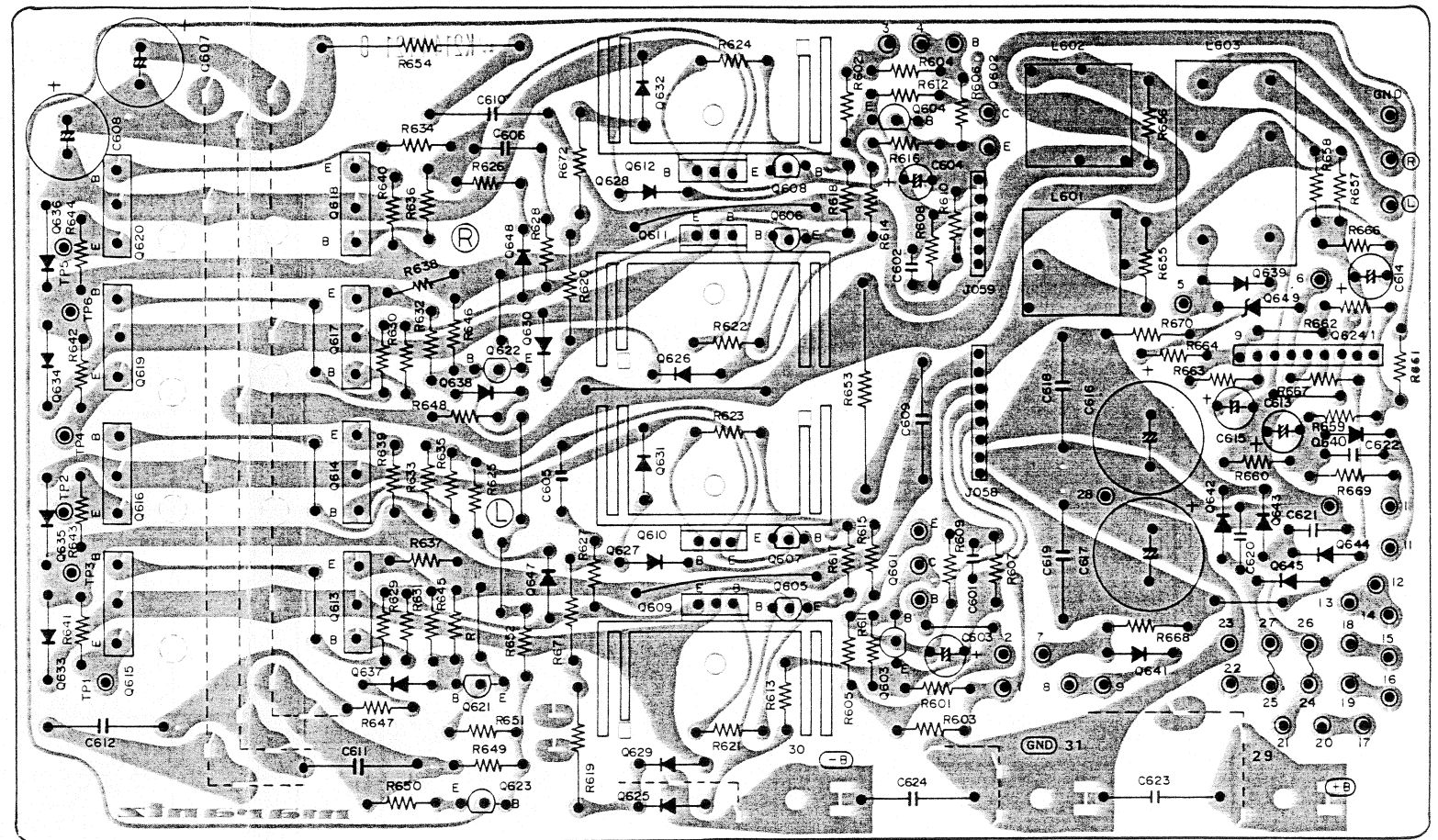
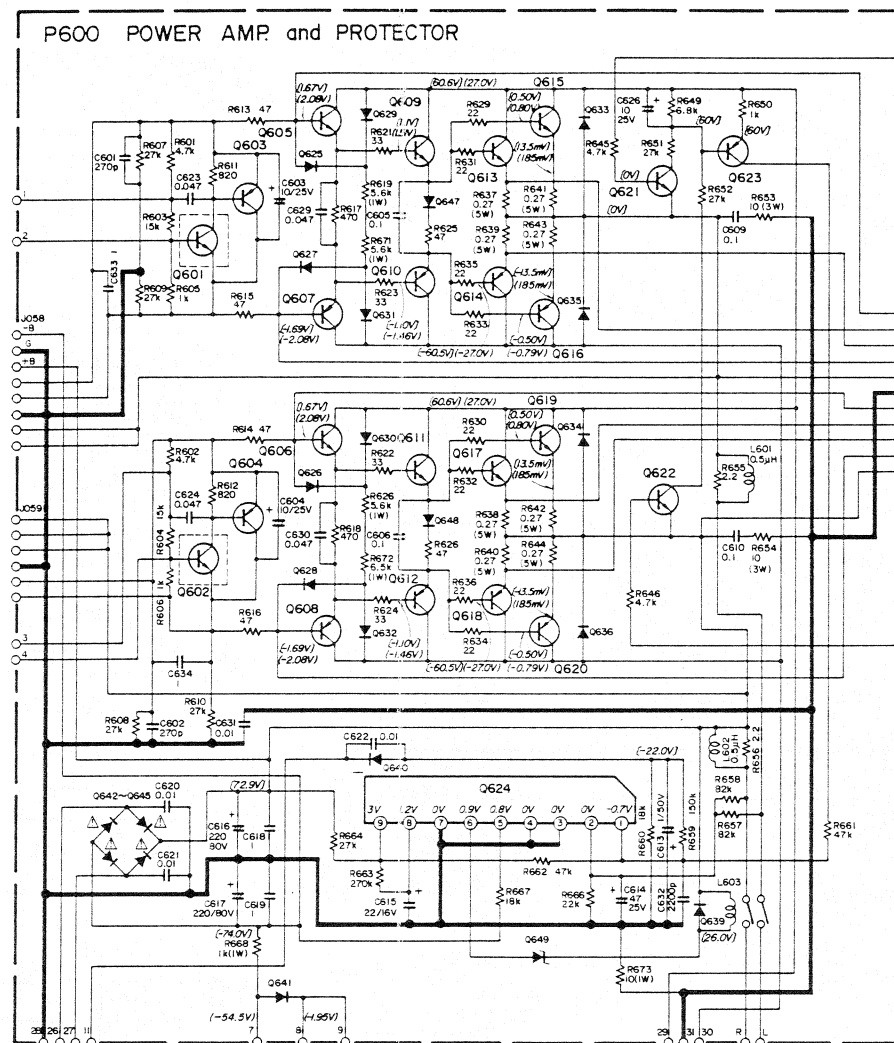
(F) ONLY



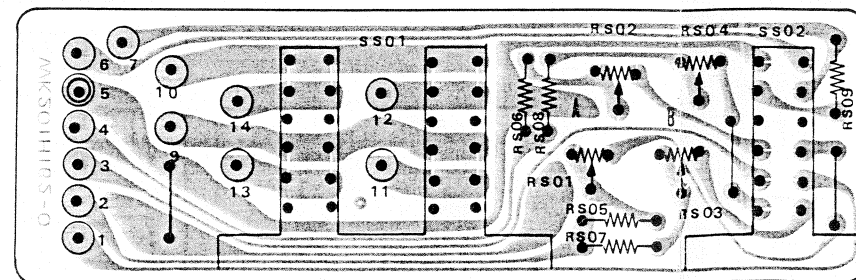
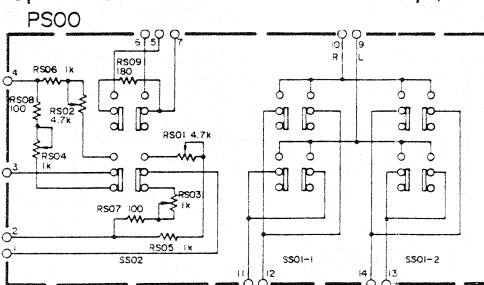
(安全上の注意: △が付いている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用してください。)
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回路図と基板

Power Amp. Protector Assembly (P600) Schematic Diagram and Component Locations



Speaker Switch & A-B Switch Assembly (PS00) Schematic Diagram and Component Locations



Meter Circuit Assembly (PX00) Schematic Diagram and Component Locations

